

REMARKS

Claim Rejections

Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Whitt et al. (US Pat. No. 5,159,734) in view of Marshall et al. (US Pat. No. 2,681,069).

Arguments

Careful consideration has been given to applicant's specification and claims, to the applied prior art references, and to the respective positions articulated by the Examiner. As a consequence of this review, Applicant offers the following arguments.

Claim 1 is directed to a cleaning apparatus for a pillared device, comprising: an outer tank, further including thereof opposing sidewalls respective upper edges, said upper edges further having respective openings to allow a shaft extending out from two ends of said pillared device to pass through; an inner tank within said outer tank for containing said pillared device, supported upon a floor of said outer tank, at least enabling a portion of said pillared device to be immersed into a first cleaning solution contained in said inner tank; a lid covering onto a top of said outer tank; and a plurality of nozzles constructed in an interior of said lid to spray a second cleaning solution onto said pillared device.

Applicant respectfully points out that the reference Whitt et al. is related to "an apparatus for cleaning residual fiber affixed to a roll"(col.1, lines 20-24), wherein the roll of Whitt et al. is used in drawing fiber into yarn. To achieve the goal, a roller brush is covered with nylon bristles for removing fibrous material from the roll. It means Whitt et al. disclose one roller brush for cleaning the residual fiber affixed to another roller by rotating the roller brush. **Since the residual fiber of the roll is brushed off by the roller brush, it is necessary for the roll to contact with the roller brush so as to remove the residual fiber affixed to the roll during the cleaning procedure.**

The present invention is related to "a cleaning apparatus for cleaning a pillared device", wherein the pillared device is used in rubbing a polyimide film by

rolling the pillared device. To achieve the goal, a portion of the pillared device is immersed into a first cleaning solution contained in an inner tank for removing polyimide residue on the pillared device. It means the present invention discloses a cleaning apparatus for cleaning the polyimide residue on the pillared device by immersing a portion of the pillared device into the first cleaning solution and rotating the pillared device. **Since the polyimide residue is removed by being immersed into the first cleaning solution, it is necessary for the pillared device to be immersed into the first cleaning solution instead of contacting with another roll during the cleaning procedure.**

Whitt et al. fail to disclose a critical cleaning procedure of the present invention, i.e. "immersing procedure". Since the residue on the pillared device is the crystal of the polyimide, it is proper to remove the residue by immersing the pillared device into the first cleaning solution rather than brushing the pillared device by another roller brush. The immersion of the pillared device will result in chemical changes between the residue and the first cleaning solution. In the present invention, the residue will be dissolved in the first cleaning solution and the pillared device is still harmless. However, the brushing procedure of the roller brush will result in the harm of the roller and the residue won't be dissolve. Apparently, the reference Whitt et al. and the present invention are different and irrelevant.

Neither Whitt et al. nor Marshall et al. disclose, or suggest a modification of their specifically disclosed structures that would lead one having ordinary skill in the art to arrive at Applicant's claimed structure. Applicant hereby respectfully submits that no combination of the cited prior art renders obvious the new claims.

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Summary

In view of the foregoing amendments and remarks, Applicant submits that this application is now in condition for allowance and such action is respectfully requested. Should any points remain in issue, which the Examiner feels could best be resolved by either a personal or a telephone interview, it is urged that Applicant's local attorney be contacted at the exchange listed below.

Respectfully submitted,

Date: October 3, 2007

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